FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office								Atty. Dkt. No.	M#			С	lient	Ref.				
										00502		-		454				
INFORMATION DISCLOSURE STATEMENT								0306592 OSP-15151							57			
BY APPLICANT									Applicant: HASEGAWA et al.									
		•						Appln. No.: Divisional of 10/254,601 which is a divisional										
			of 09/793, 124															
1									Filing Date: October 30, 2003									
Date: October 29, 2003 Page 1 of 1								Examiner				up Aı	rt Un	it: 2	823			
U.S. PATENT DOCUMENTS																		
Examiner Document			Date		Name		-			Clas	s S	Sub		Filing				
s		Number		MM/Y	7	(Family N	lame (of First Inv	ent	or)			Class		Date			
Initials*							· · · · · · · · · · · · · · · · · · ·							(if appropriate				
		U.S. 6,240,610 B1		 		Ishihara e		÷		····	29		25.01		<u> </u>			
1-24 H		U.S. 5,100,495		 		Ohmi et a					156		345.26					
		U.S. 5,716,495		02/19		Butterbau					438	_	80					
		U.S. 6,239,044 E		05/20		Kashiwag				438		787						
		U.S. 3,732,435 A		05/19			Strandberg et al.				307		118					
		U.S. 4,475,080 A	10/19		Walker, Charles W. E.				324			640						
		U.S. 5,584,971	12/19		Komino, I		204		192.13									
1 0127		U.S. 4,272,986 A			Lowry et al.					73		73						
		U.S. 5,749,521			Lattery, Jerome E.				239									
		U.S. 4,222,044 A	7		Boschung, Marcel Pillion, John E.				340	29.01								
		U.S. 5,844,125 A							73									
		U.S. 5,407,492 A			Ohmi et al. Ohmi et al.			· · · · · · · · · · · · · · · · · · ·	148									
	MR U.S. 4,869,301 A C			09/19	09/1989 Ohmi et al.			XXXX			141	Z C	\gtrsim	~				
		ALT DOCUMENT	_ <u>~</u> TC			$\sim \sim$	<u> </u>				\sim	->K			Translati			
FOREIGN PATENT DOCUMENTS				Causta			tor Name			iglish istract		Readily						
		Document Number	Date MM/Y	YYY	, ,			tor Name					Available ·					
		rambo.					ŀ	·	.			Enclo	losed No		Enclose No			
170 0)R	01216551 A	08/19	30	Japan	1	Sam	vatari et al	,									
227			10/19		Japar			hashi et al								H		
977			04/20		Japar			iguchi	•							\vdash		
			03/19		Japan													
	-		05/19		Japan													
AC. T			08/20		Japan			ni et al.										
7710	JR	05-099845	04/199		Japan	***************************************		o et al.								\sqcap		
981 V	/R	11-183366	07/19	9	Japan		Taka	yuki et al.								П		
1	WR	7-7-	+	>)	2	1				7/		//		Ί.	X			
7 1	(R\	1	<i>Y</i> ,	1	X							7		7,				
OTHER (Incl	ludir	ng in this order A	uthor,	Title, I	Periodi	ical Name	, Date	, Pertinen	t Pa	ages, etc.)					•	Π		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	R	1 1				^								_				
	'R\	1 2			<u>, \</u>			λ	Λ			1	Jol	1	(
	AR	\times	4	\angle		X_{-}	\swarrow	X_{-}	$\angle X$	XX			Δ	_		K		
	BR	$\times \setminus \wedge$	X		\searrow	\sim	\rightarrow		,	\times		1	\perp	\angle		Ш		
	CR	XX	$\langle \; \; \rangle$	/	/ }		$\angle \lambda$	$\overline{}$	_	\mathcal{N}		7	4		<u> </u>	Ш		
	DR		~	\triangle		\ \ \ \ \ \		$\sim\sim$		V			$oldsymbol{oldsymbol{oldsymbol{oldsymbol{eta}}}$	X	\			
Examine Andre C Flurence Date Considered: 08-11-05																		
*EXAMINER: Initial is citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.																		

(PW FORM	epaitr PAT-	nent of Commerce	9	PATENT	NOV 2 L	TOR JC		Atty. Dkt. No.	M#	06592	- (Was		Client			-		
INFORMATION DISCLOSURE STATEMENT OF STATEMEN									0306592 OSP15151 Applicant: HASEGAWA et al.									
						•		Appln. No	o.: 1	0/696,702								
								Filing Da	te: O	ctober 30, 20	003						_	
Date: Nove	embe	r 20, 2003	Page	1	of	1]	Examine	r: Es	trada, M.	Gro	up.	Art U	nit: 2	823			
U.S. PATE	NT C	OCUMENTS														·		
Examiner		Document		Date		Name					Clas		Sub		Filin			
S		Number		MM/	YYYY	(Family N	lame	of First In	vent	or)			Class	S	Date			
Initials*	20									// \	+		_	_	(if app	горп	ate)	
\	AR BR	\ \	\leftarrow		-		/×	/	+	$\overline{}$	 		\times	?			_	
\ 	CR				/	 \ 	$\overline{}$	/			$\overline{}$	\nearrow	-	/ -	 	/	_	
	OR	\		\forall		1		\	$\overline{}$	 	1	<u>_</u>		+	/			
-	ER		***********	1	·····	X		1	<u> </u>	\	$/ \setminus$			·. \	<u> </u>			
	FR		$\overline{}$			/\	•	· X		.\ /	1	$\overline{}$		/				
X	GR	X	7		\					1	1	7	7	/	1			
	HR				\sum					V		7	$\overline{}$					
	IR	//	<u>X</u>		ΔL	·				Δ			V_{\cdot}					
	JR.	/ /				ļ	$\Delta \angle$						И		Ц	<u>.</u>		
<i></i>	KR/	 		ļ	$/ \setminus$		X_				ļ	_/	17		\Box			
/·	LR	 	-				-/\-		 	/	-		Н.	1	1			
/	MA	I	———	/			\leftarrow		 	/		_	1			٠		
	NR \	4 4		<u> </u>	·····	<u> </u>	<u> </u>		<u>, </u>	·	1	<u> </u>				-		
	PAT	ENT DOCUMEN			1_		1.			•			glish stract		Trans		חנ	
		Document Number	Date MM/Y	~~~	Coun	try	Inve	ntor Name	•						Avail			
		Inumber	100000	,								E 5	ciosed	No	Enclo	250	No	
009	OR	10-144581	05/19	O8	Japai		Mas	anori				X	20360	140	LING	/36	140	
100		60-145999	08/19		Japai		Haru		-	_		x		 	-	\dashv	_	
121		6-61199	03/19		Japa		Eiji					x		 				
100	RR						1 2		7		7	广		⇇			1	
	SR	X		\overline{X}	1	$\overline{}$		X		X	-	T	/	1		\nearrow	_	
	T/R			\angle						-			<u>'</u>		7			
A	u ix		Δ		$\Lambda \angle$		\mathcal{N}		\sum		/		$\overline{\mathcal{I}}$		X_{-}			
	VR\	\perp	IA_		IX.		K.		\mathcal{X}	/		<u> </u>	\rightarrow	$\perp \angle$	1			
/	WR	$\wedge \wedge \rightarrow$	/ 		\swarrow		1	· /	$\langle \cdot \rangle$	\	4	<u> </u>		\bigvee	\vdash	\dashv	<u> </u>	
	XR		\perp		<u> </u>		<u>L</u>	1	<u> </u>	1 /		<u> </u>		<u> </u>	_	ᆜ		
OTHER (In		ng in this order A	Author,	Title,	Period	ical Name	, Date	e, Pertiner	nt Pa	iges, etc.)	`		/\		X	;	,	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	YR				\		1	\rightarrow	<u> </u>	\ <u>\</u>	/			\downarrow		λ	_	
	ZR AAR	+X	X -		Δ	/	/	$\overline{}$		\times	$\overline{\chi}$	├-	$\rightarrow \sim$	1-1		4	_	
	BBA	 	$\overline{}$	/		/	$\overline{\chi}$	$\overline{}$	_/		_	 	\leftarrow	ļ	X	╌┤	7	
1	CCK	X		\ —	'	\	\nearrow		₹	$\overline{}$	$- \downarrow$	¥-		\-/	1	_		
1	DØR		-/	/-	_/	\ /	<u></u>	\ /	+	$\overline{}$	$-\!\!\!/$	\		\bigvee	 	\forall		
Examiner			ven	1				Date Cor		red: 02	11- 20	<u> </u>		1/-\-		#1		
*EXAMINE	R:	Initial if citation co			ether or	not citation	n is in						ne thr	Oliup	citati	On i	 f	
		e and not conside	red. Inc	lude	copy of	this form w	ith ne	d commun	icatio	n to Applicant	. Dia							

(PW FORM	partn -PAT	(modified) nent of Commerce -1449) . frademark Office	O 1 P & 503 34 33				Alty, Dkt. No.	M#				Client Ref.			
					COTA	OFMARK OF	P		0306592			0:	SP-151	51	
INFORMA BY APPL		N DISCLOSUR NT	RE ST	ATE	MENT"	DEMAN		Applicant	: HASEGA	WA et	al.				
								Appln. No	o.: 10/696,	702					
					_			Filing Da	te: October	30, 20	03				
Date: Dece	mbe	r 9, 2003	Page	1	of	1		Examine	r: Estrada, I	VI.	Gro	up Art	Unit: 2	823	
	NŤ D	OCUMENTS			· ;.		7 3 4 4	• • • • • • • • • • • • • • • • • • • •					:	÷,	· .
Examiner Document S Number Initials*			Date Name (Family N			ame	of First Inv	ventor)				ıb ass	Filing Date (if appropriate)		
TXX	AR	5,241,851		09/1	993	Tapp et a	ı				73	29	.01	(
1	BR			-	- /	1.000.0.0	<u> </u>	1		/	 	- 		 	
	CR				\nearrow		\rightarrow	<u> </u>		/	1		/ \		/-
	DR		\sum			/ /			X			ΧŤ		//	
	ER		\triangle			X			/-		/			X	
	FR							/	<u> </u>						
<u> </u>	GR	<u> </u>		Δ	$- \angle$. \	\searrow					
<u> </u>	HR			17			/	/		\angle		Ŀ			\sum
/-\	IR	 		<i> </i>	{		\rightarrow		$\overline{}$				$-\!\!\!\!/\!$		$oldsymbol{ol}}}}}}}}}}}}}}}}$
/ }	JR	 /\-		 /-	/		$-\!\lambda$				1			 	
-/ 	KR	 / \		/	$-\!$		$/\!$	1	$-$ /\		1		/	 	
 / 	LR MR	 /	/-	 	$\overline{}$	 		}	/-\		1	/		 	
/	NR /		\ / -	 	$\overline{}$	 /-			17-7	,	 	\ 		 	
		ENT DOCUMEN	TC			<u> </u>		$\overline{}$			1	Englist		Translat	
OKLIGIV		Document Number	Date MM/Y		Coun	· · · · · · · ·		tor Name		الإنسان المشاهرة		Abstra	ct	Readily Available	е
777		10 10 00 00			 								ed No	Enclose	No
		JP 10-335249	12/199	<u> 98</u>	Japar	1	Hash	im				X		ļ	-
\	PR/				+->	×		7		_		_		 	<u></u>
	ØR RR			$\overline{}$	+-/			$\overline{}$		$\overline{}$		\rightarrow	\leftarrow	 /-	+
\ \	SR				\checkmark				λ		$\overline{\ }$			/	+-:
X	TR/		 	$\overline{}$			$\overline{}$				\nearrow		/		+-
	u/R			7	$\uparrow \uparrow$			$\overline{}$		-/	<u> </u>	1	/	—	+
7	V R	1 /		/				$\overline{\lambda}$	· · · · · ·	$\sqrt{}$			$\sqrt{1-}$		4
7 · V	WR					\triangle						/	V		T
4	XR	7		7							J.				
OTHER (In	cludi	ng in this order A	uthor,	Title,	Period	ical Name	, Date	, Pertiner	it Pages, et	c.)	• • •	/	1		L
	YR,	<u> </u>							<u> </u>			, >		/	1_
	ZŔ	\longrightarrow	\Rightarrow		\longrightarrow	\leq	/		<u></u>			_	7	X	Ŀ
\longrightarrow	AAR			\rightarrow		\longrightarrow		<u>,</u> ×	X		/	\geq	$\bot \bot$	$\overline{}$	1
/- }	BBR			—/	~	/>	\	/	\rightarrow	\rightarrow			A	\	1
-/	CCR DOR	h	/-		-+			······		_/_	\		A	1	1_
	אישט	100	A.		~ ·		/	_	V		<u> </u>		<u> </u>	<u> </u>	<u> </u>
Examiner /	fre	die CL		eus					sidered: 0			. 0			
		Initial if citation co se and not conside	nsidere	a, wn:	einer or	not citation	is in i	contormani t communi	ce with MPE	P § 609). Drav	w line t	hrough	citation	if